

## ECS Configuration Change Request

Page 1 of 3 Page(s)

1. Originator Evan Winston	2. Log Date: 2 Oct 00	3. CCR #: 00-0970	4. Rev: —	5. Tel: 301.925.0348	6. Rm #: 2013	7. Dept. DEV/CO
8. CCR Title: Test Executable 6A.01_DDIST.01 to VATC, PVC.. Distribution Threads are not working as expected.DDIST does not pass priority to STMGT on Retrieval.						
9. Originator Signature/Date <i>Evan Winston 9/29/00</i>		10. Class II	11. Type: CCR	12. Need Date: 1OCT2000		
13. Office Manager Signature/Date <i>Evan Winston 9/29/00</i>		14. Category of Change: Update ECS Baseline Doc.		15. Priority: (If "Emergency" fill in Block 28). Emergency		
16. Documentation/Drawings Impacted: N/A		17. Schedule Impact: N/A		18. CI(s) Affected:DDIST		
19. Release Affected by this Change: 6A		20. Date due to Customer:		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: NCRs ECSed27584 and 27993.						
23. Problem: (use additional Sheets if necessary) Problem: 27584:Distribution priority threads are not working as expected, high and very high requests are they are ignored for the low and normal threads. Impact: Requests high and very high priorities have to be changed to low or normal priority to run. These threads are not processed due to distribution of primary threads, therefore GDAAC cannot process in OPS. 27993: Archive server not being called with proper request priority. DDIST does not pass priority to STMGT on Retrieve						
24. Proposed Solution: (use additional sheets if necessary) Test Executable 6A.01_DDIST.01 will provide fixes to the problem listed above. TE can be loaded on top of DDIST installations of 6A.01.  See page 3 for a detailed description of the resolution.						
25. Alternate Solution: (use additional sheets if necessary) Take no action now and wait until 6A.02 is available.						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) VATC must continue to work around the problems and/or modify operating procedures.						
27. Justification for Emergency (If Block 15 is "Emergency"): Resolves VATC test problems						
28. Site(s) Affected: <input type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input checked="" type="checkbox"/> VATC <input type="checkbox"/> EDC <input type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input checked="" type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. EDF/SCDV CCB Chair (Sign/Date): <i>Bryan J. Ketter 10/2/00</i>		Disposition: <u>Approved</u> App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS				
33. M&O CCB Chair (Sign/Date):		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS				
34. ECS CCB Chair (Sign/Date):		Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS				

CM01JA00

ORIGINAL

ECS/EDF/SCDV/M&amp;O

## ADDITIONAL SHEET

**CCR #:**                      **Rev:**                      **Originator:** Evan Winston

**Telephone:** 301.925.0348                      **Office:** DEV/CO

**Title of Change:** Test Executable 6A.01\_DDIST.01 to VATC, PVC.. Distribution Threads are not working as expected.DDIST does not pass priority to STMGT on Retrieval.

CM: PLEASE, build Sun TAR file for the listed files from the current 6A baseline and provide to the SMC.

executable directory  
/ecs/formal/DSS/bin/sun5.5/EcDsDistributionServer  
lib directory:  
/ecs/formal/DSS/lib/sun5.5  
libs:  
libDsDdSSh.so  
libDsDd8mmTapeSh.so  
libDsDdFtpPushSh.so  
libDsDdFtpPullSh.so  
libDsDdBSh.so

SMC: Receive the TAR file(s) and make available to the PVC and VATC.

DAAC Install Instructions:  
Change requested by VATC--

TE can be loaded on top of DDIST installations of 6A.01.

1. Get File from SMC distribution;
2. UNTAR the files and place in staging area.
3. On the DataDistribution Server Platform do the following using the 'cp' from the command line to replace files:

REPLACE all occurrences of the files included with this TE mode-by-mode, using the same permissions levels and ownerships as previous file.

The EcDsDistribution Server is placed in the following dir.:  
/usr/ecs/<mode>/CUSTOM/bin/DSS/

The lib files are placed in the following dir.:  
/usr/ecs/<mode>/CUSTOM/lib/DSS/

ORIGINAL

RESOLUTION of the FIX: NCR 27584

1) The function PriorityQueue::AddRequest interface is changed to exactly match that of its virtual parent so that the polymorphic mechanism used in calling the function actually calls the intended function and does not default to calling merely the parent.

2) Checks have been added to make sure that this condition:

(# of worker threads > Sum of priority threads)  
exists at server startup time and at runtime when  
priority threads are seized.

(The default # of worker threads is changed to 228  
in the mkcfg)

3) New debug output includes a summary of the priority queue  
as request are being added and removed from the queue.  
(This increases debug output by about 20-40 lines per request)

RESOLUTION of the FIX: NCR 27993

The DsStArchive Retrieve( ) function is now called with the request priority as the argument

CM01AJA00

ORIGINAL